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Annex for 5G Wi-Fi BAND 3

Test Report No.: CTL2510203021-WF03

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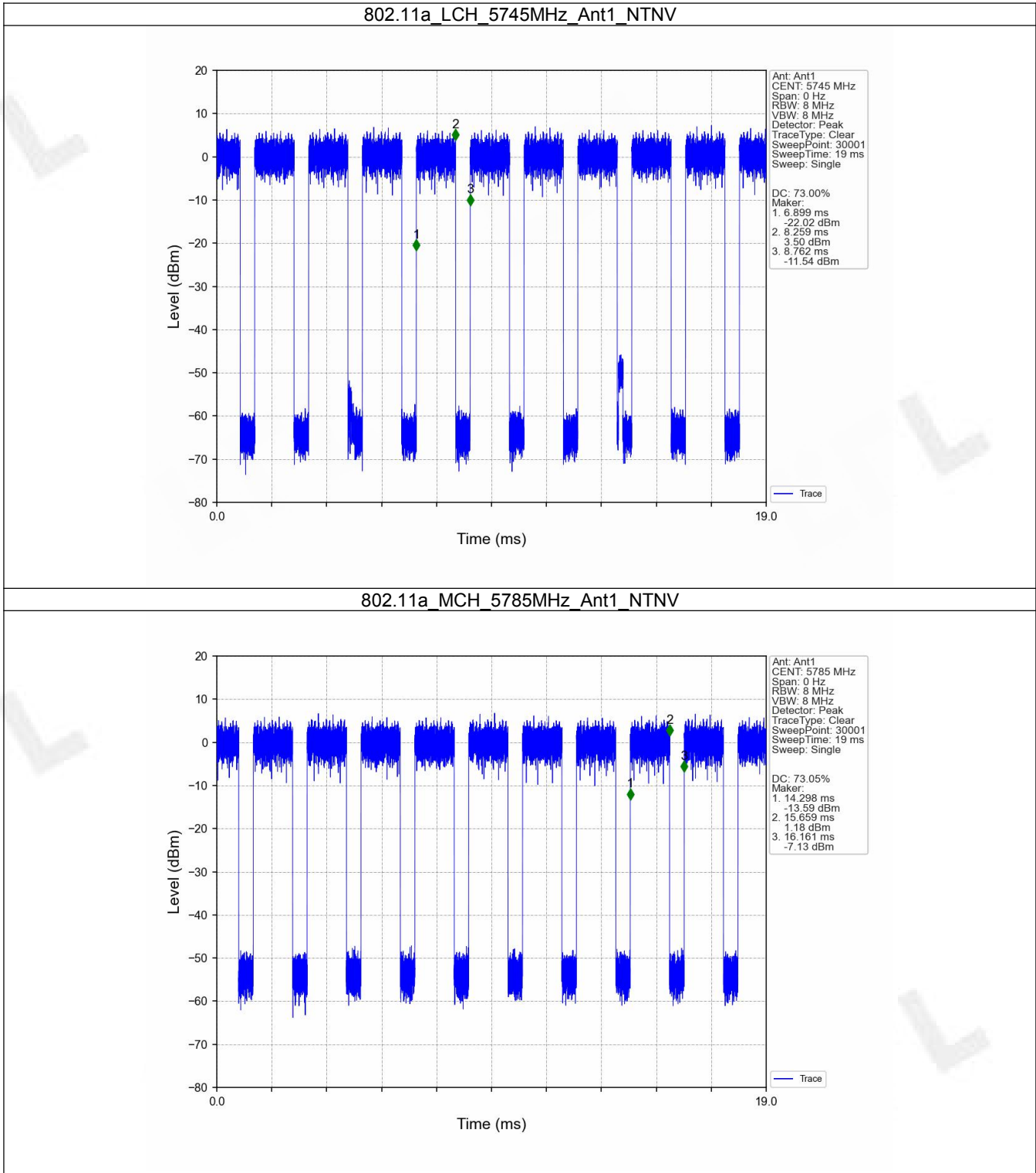
1. Duty Cycle**1.1 Test Result****1.1.1 Ant1**

Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	/	/	1.360	1.863	73.00	1.37	0.03
		5785	/	/	1.361	1.863	73.05	1.36	0.03
		5825	/	/	1.360	1.863	73.00	1.37	0.03
802.11n (HT20)	SISO	5745	/	/	1.273	1.775	71.72	1.44	0.03
		5785	/	/	1.273	1.774	71.76	1.44	0.01
		5825	/	/	1.272	1.774	71.70	1.44	0.02
802.11n (HT40)	SISO	5755	/	/	0.633	1.135	55.77	2.54	0.03
		5795	/	/	0.633	1.135	55.77	2.54	0.03
802.11n (HT20)	MIMO	5745	/	/	1.273	1.775	71.72	1.44	0.03
		5785	/	/	1.273	1.775	71.72	1.44	0.03
		5825	/	/	1.272	1.775	71.66	1.45	0.06
802.11n (HT40)	MIMO	5755	/	/	0.633	1.135	55.77	2.54	0.03
		5795	/	/	0.632	1.134	55.73	2.54	0.03
802.11ac (VHT20)	SISO	5745	/	/	1.276	1.778	71.77	1.44	0.03
		5785	/	/	1.276	1.778	71.77	1.44	0.03
		5825	/	/	1.276	1.778	71.77	1.44	0.03
802.11ac (VHT40)	SISO	5755	/	/	0.636	1.138	55.89	2.53	0.05
		5795	/	/	0.637	1.139	55.93	2.52	0.04
802.11ac (VHT80)	SISO	5775	/	/	0.317	0.819	38.71	4.12	0.03
802.11ac (VHT20)	MIMO	5745	/	/	1.276	1.779	71.73	1.44	0.03
		5785	/	/	1.277	1.779	71.78	1.44	0.03
		5825	/	/	1.276	1.778	71.77	1.44	0.06
802.11ac (VHT40)	MIMO	5755	/	/	0.637	1.138	55.98	2.52	0.02
		5795	/	/	0.637	1.139	55.93	2.52	0.03
802.11ac (VHT80)	MIMO	5775	/	/	0.317	0.818	38.75	4.12	0.03
802.11ax (HEW20)	SISO	5745	SU	/	0.986	1.489	66.22	1.79	0.01
		5785	SU	/	0.986	1.488	66.26	1.79	0.03
		5825	SU	/	0.986	1.488	66.26	1.79	0.03
802.11ax (HEW40)	SISO	5755	SU	/	0.520	1.022	50.88	2.93	0.03
		5795	SU	/	0.521	1.023	50.93	2.93	0.03
802.11ax (HEW80)	SISO	5775	SU	/	0.280	0.782	35.81	4.46	0.03
802.11ax (HEW20)	MIMO	5745	SU	/	0.987	1.489	66.29	1.79	0.03
		5785	SU	/	0.986	1.488	66.26	1.79	0.03
		5825	SU	/	0.986	1.489	66.22	1.79	0.03
802.11ax (HEW40)	MIMO	5755	SU	/	0.521	1.023	50.93	2.93	0.03
		5795	SU	/	0.521	1.023	50.93	2.93	0.03
802.11ax (HEW80)	MIMO	5775	SU	/	0.279	0.781	35.72	4.47	0.03

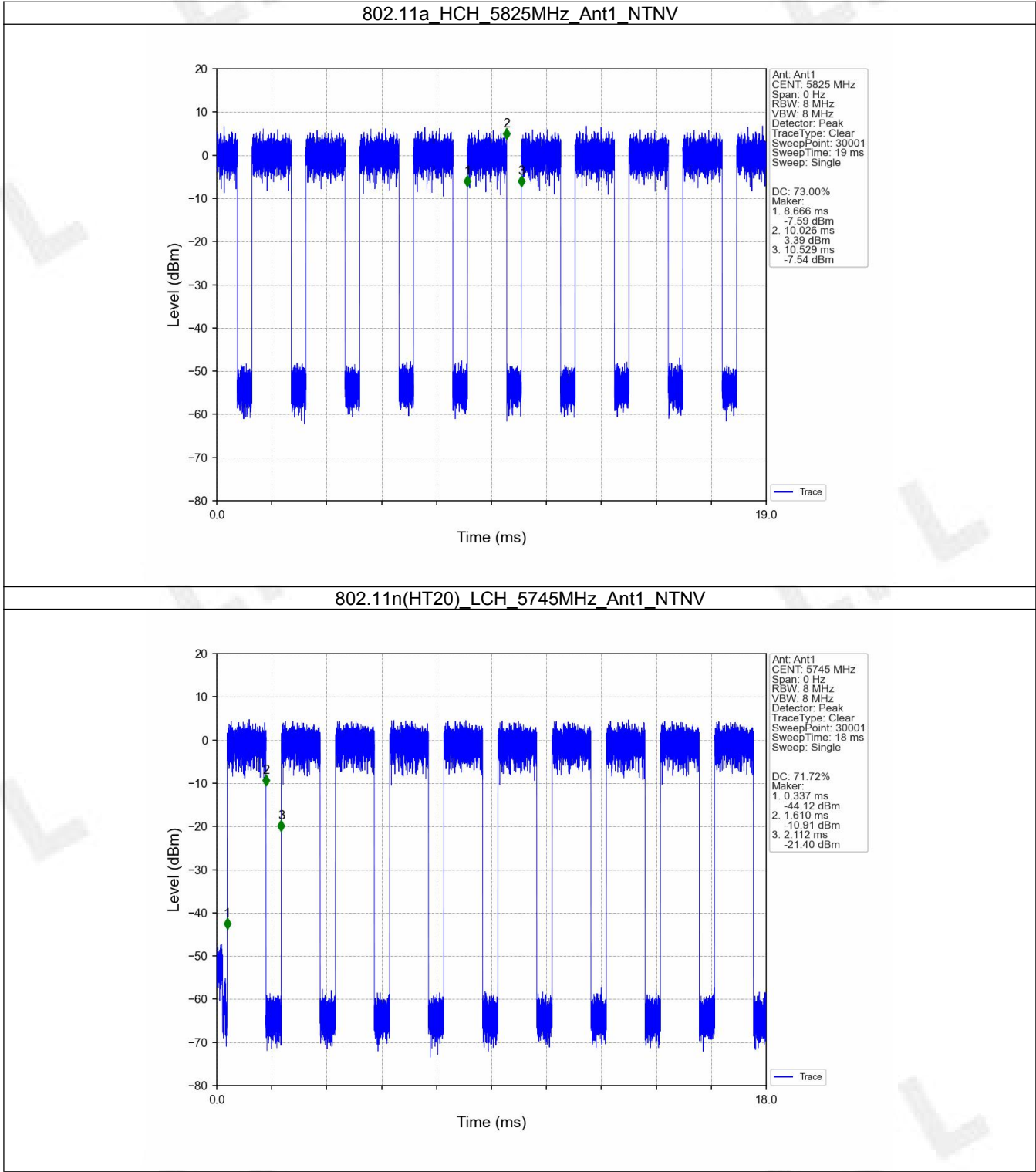
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1.2 Test Graph

1.2.1 Ant1

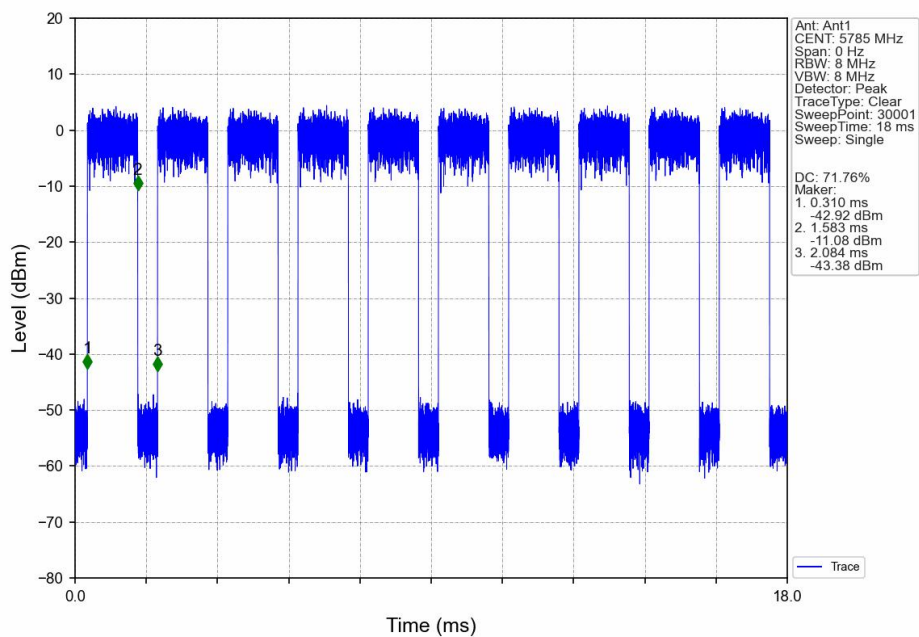


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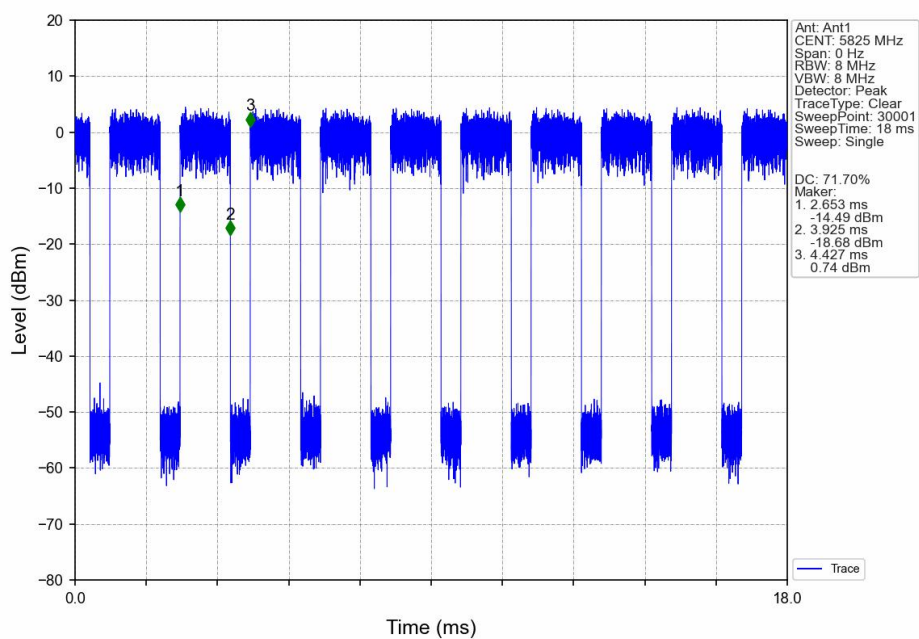


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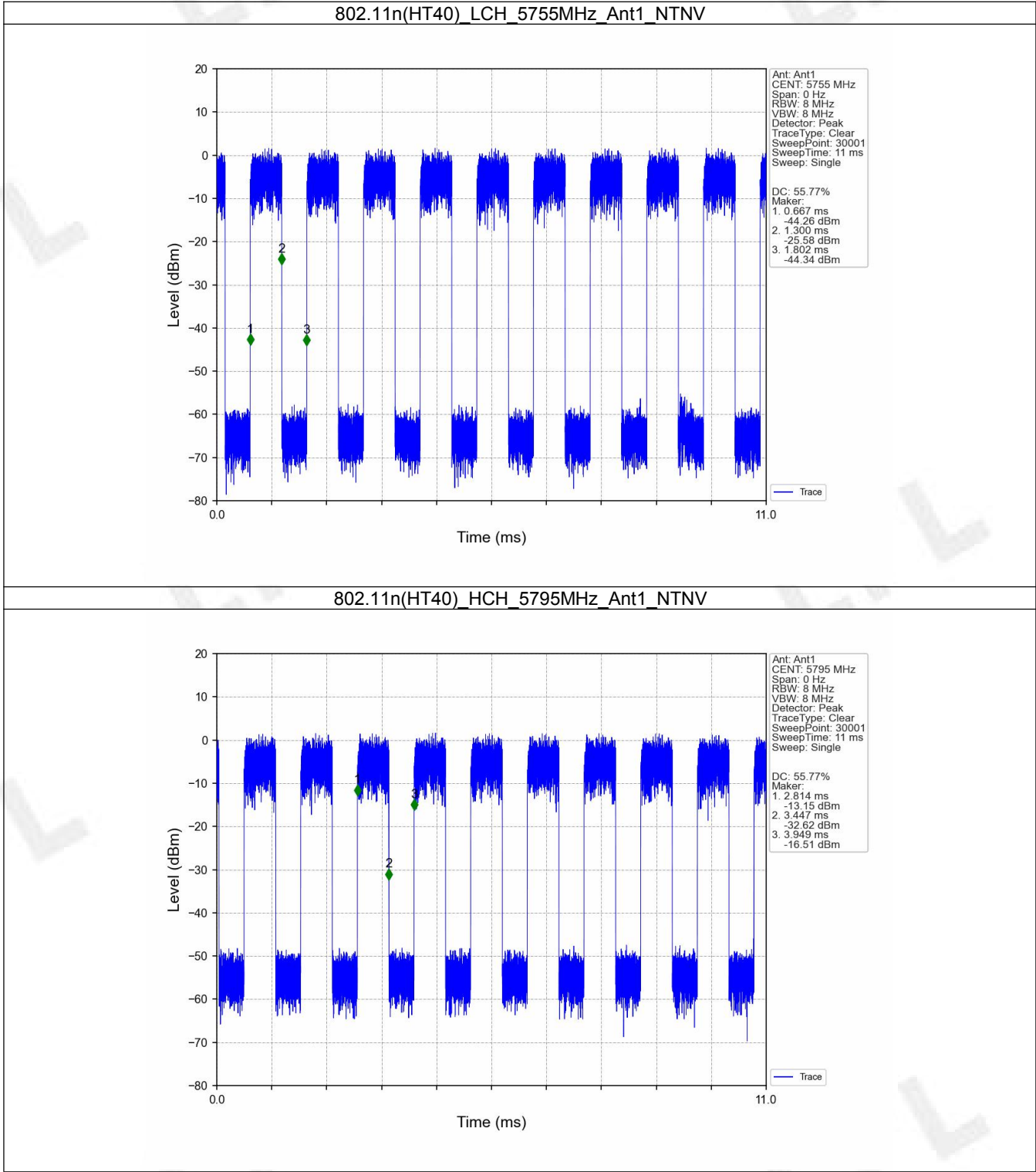
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



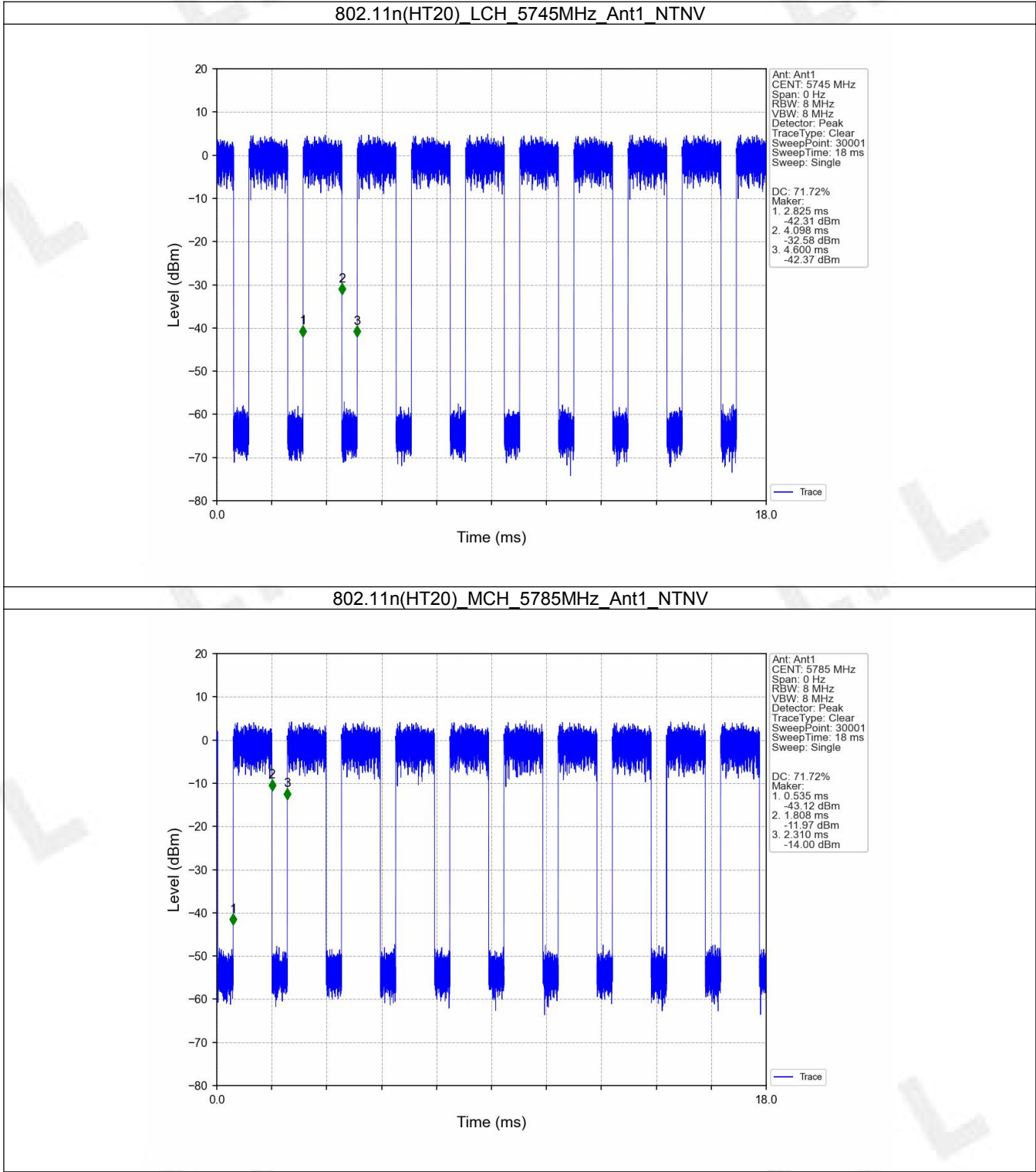
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



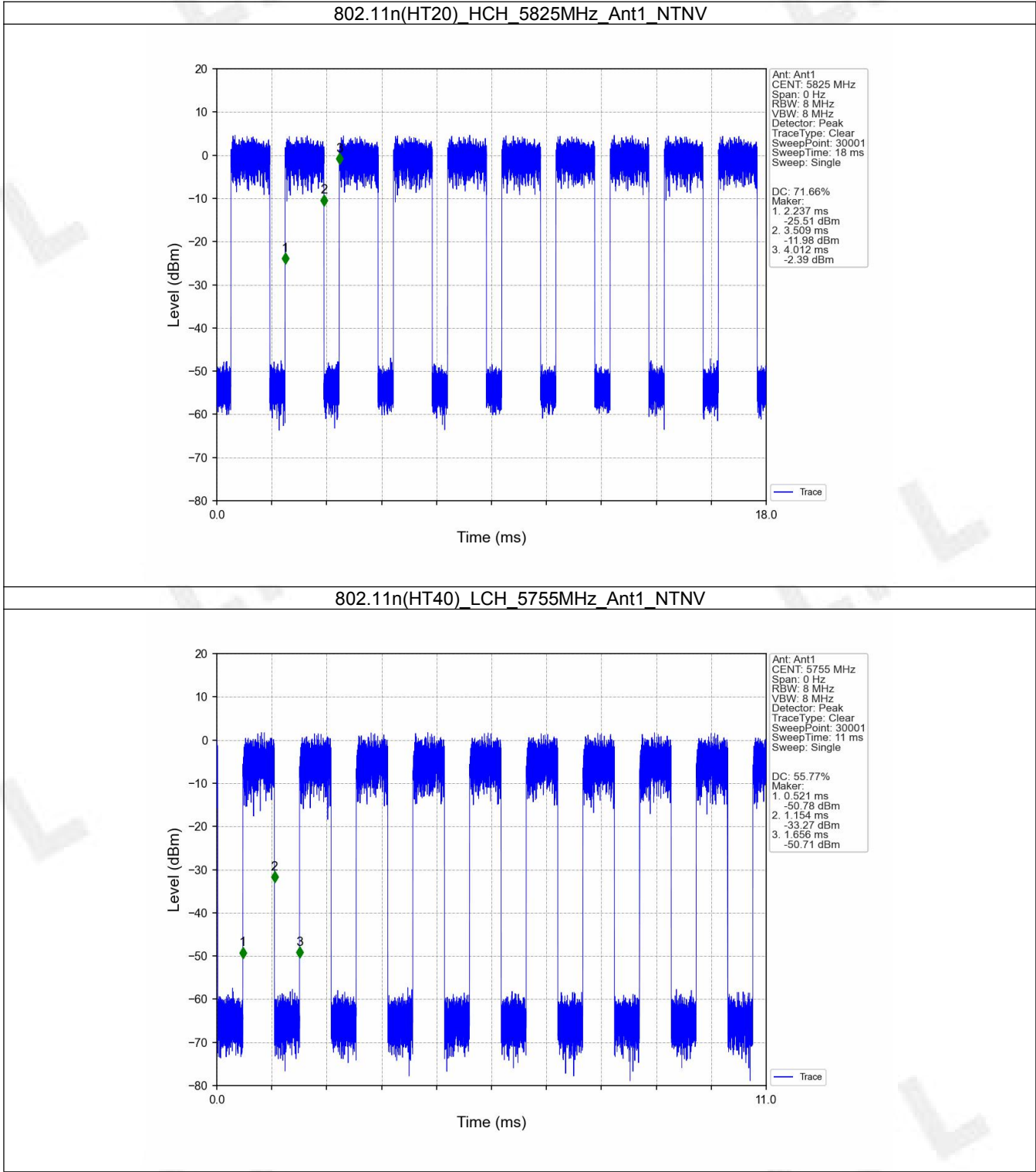
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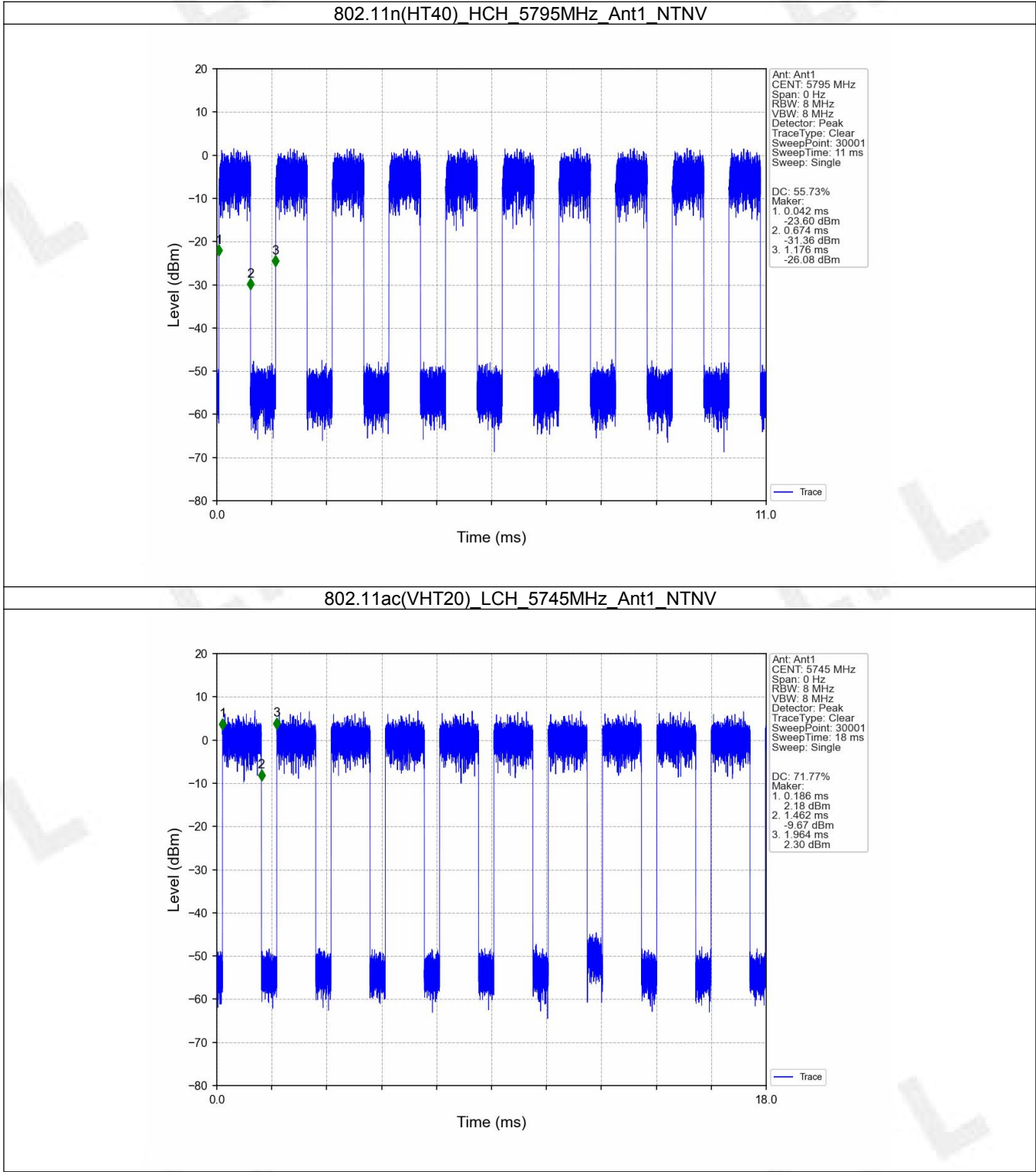
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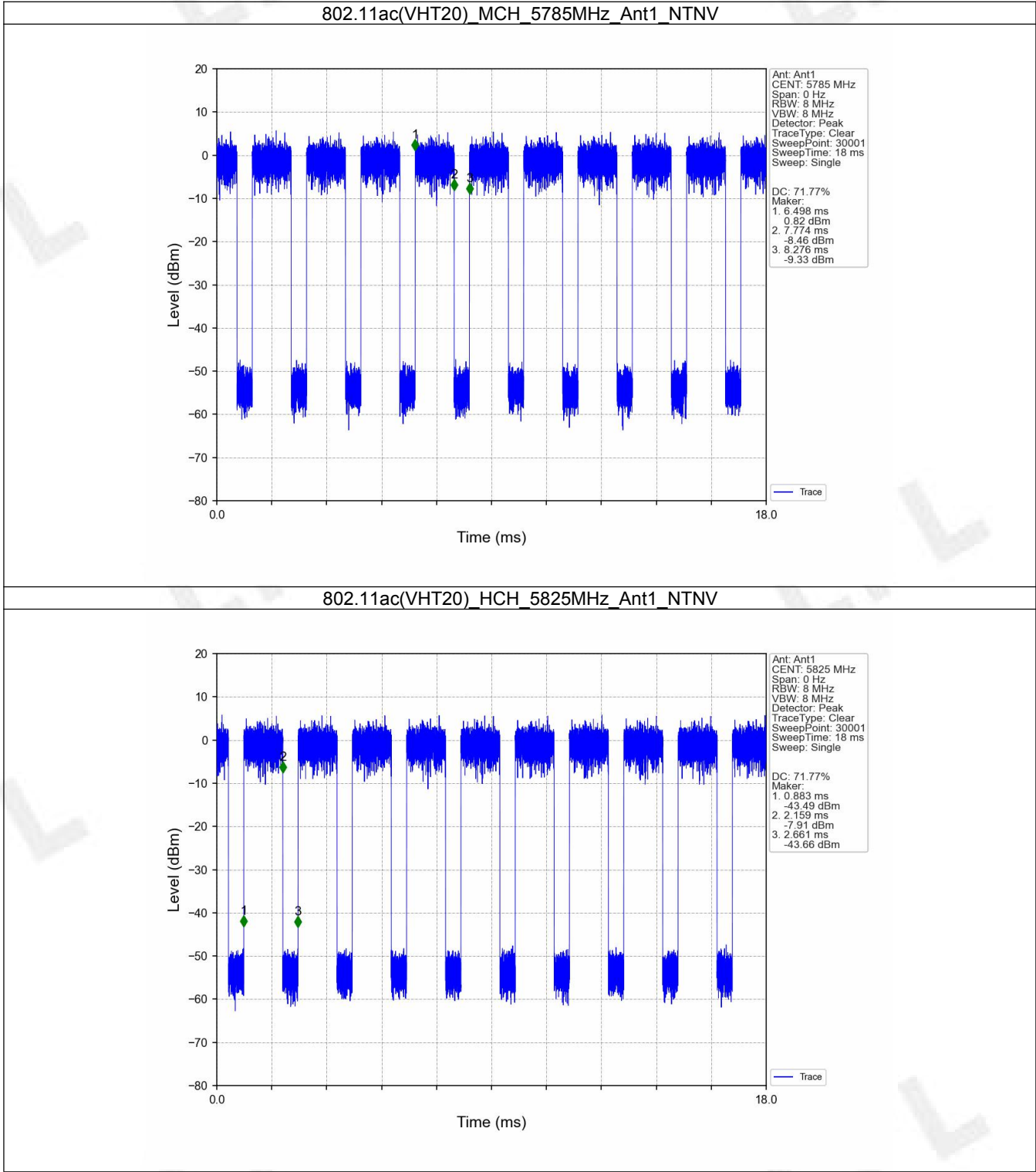
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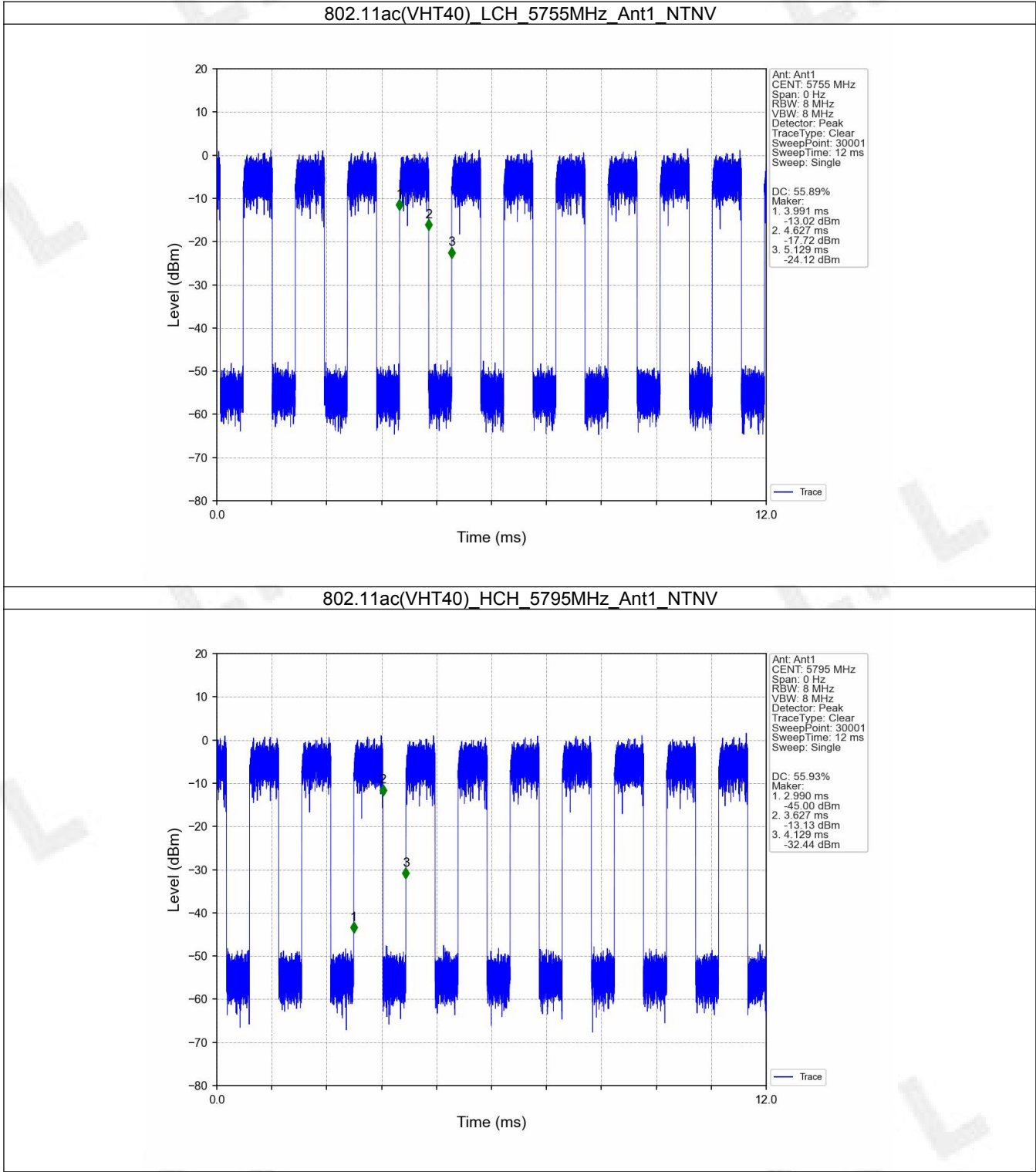
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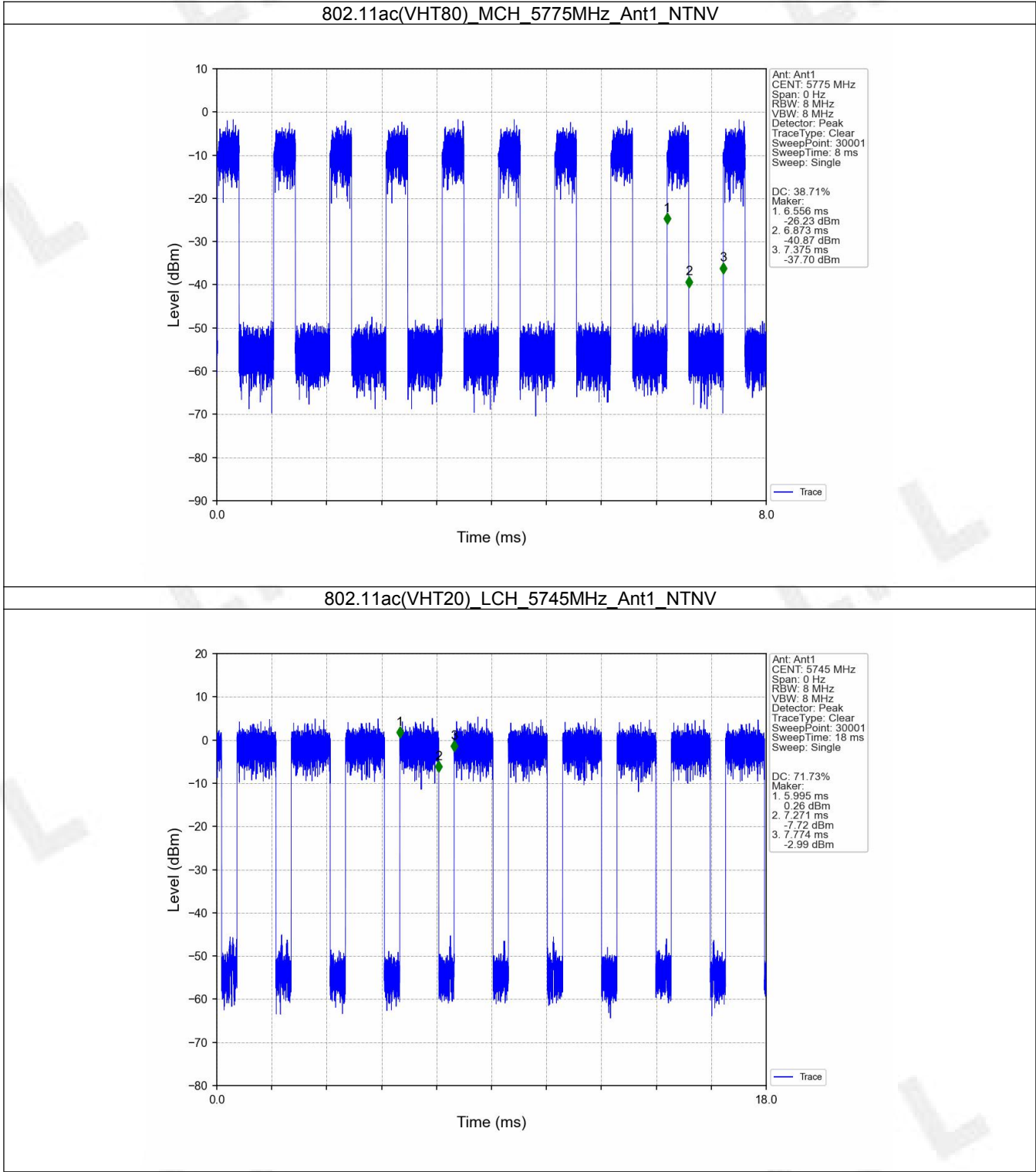
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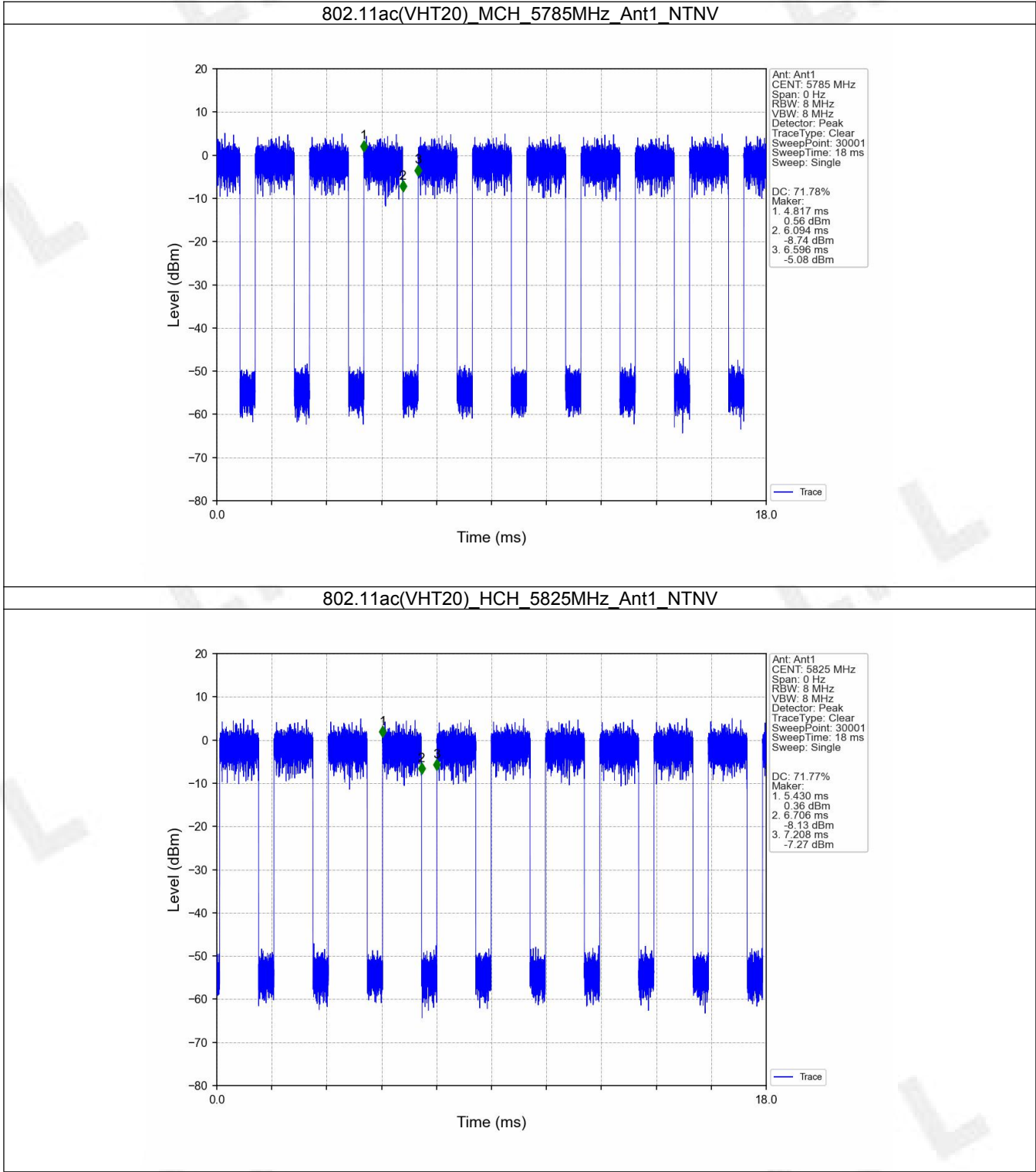
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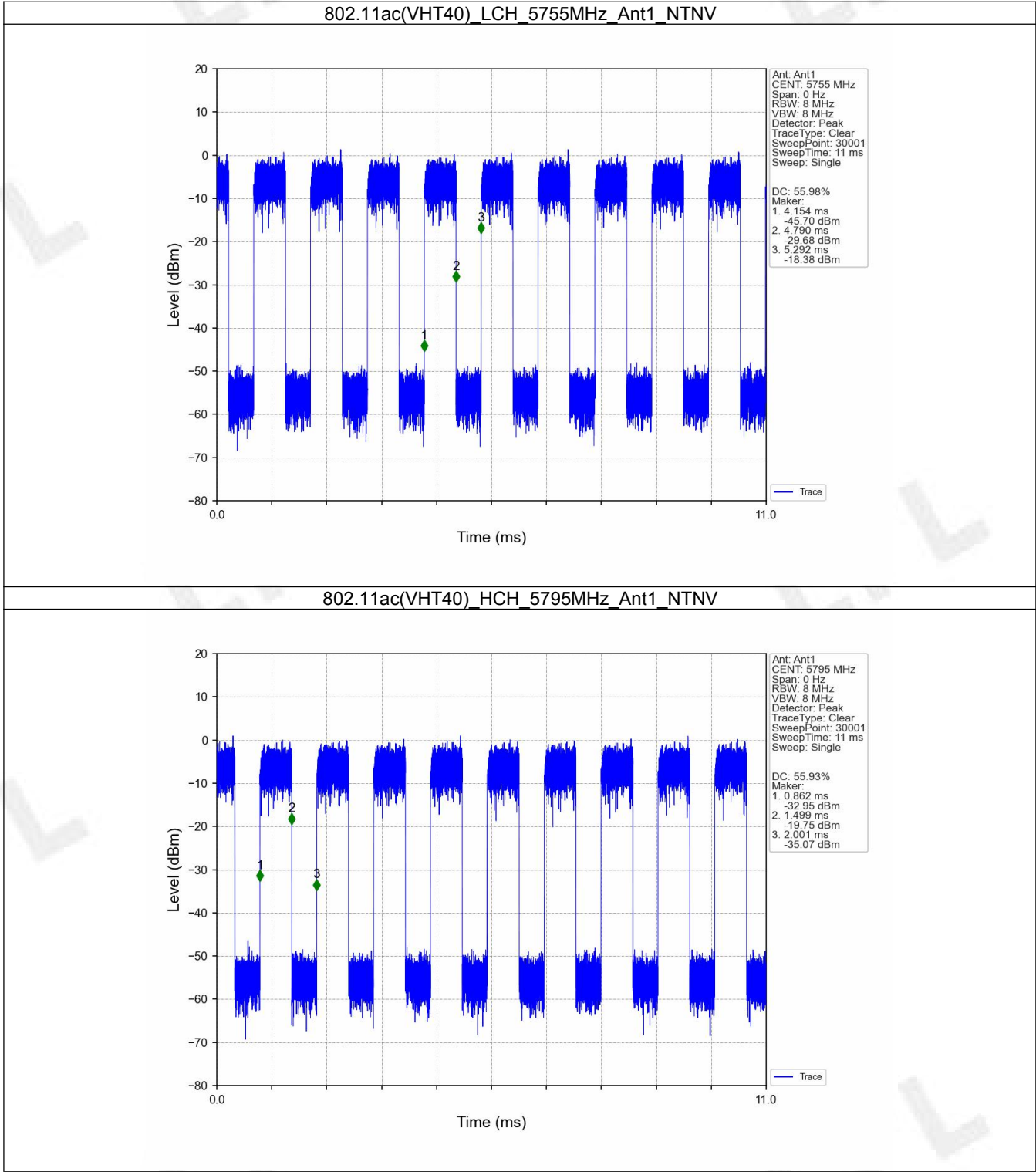
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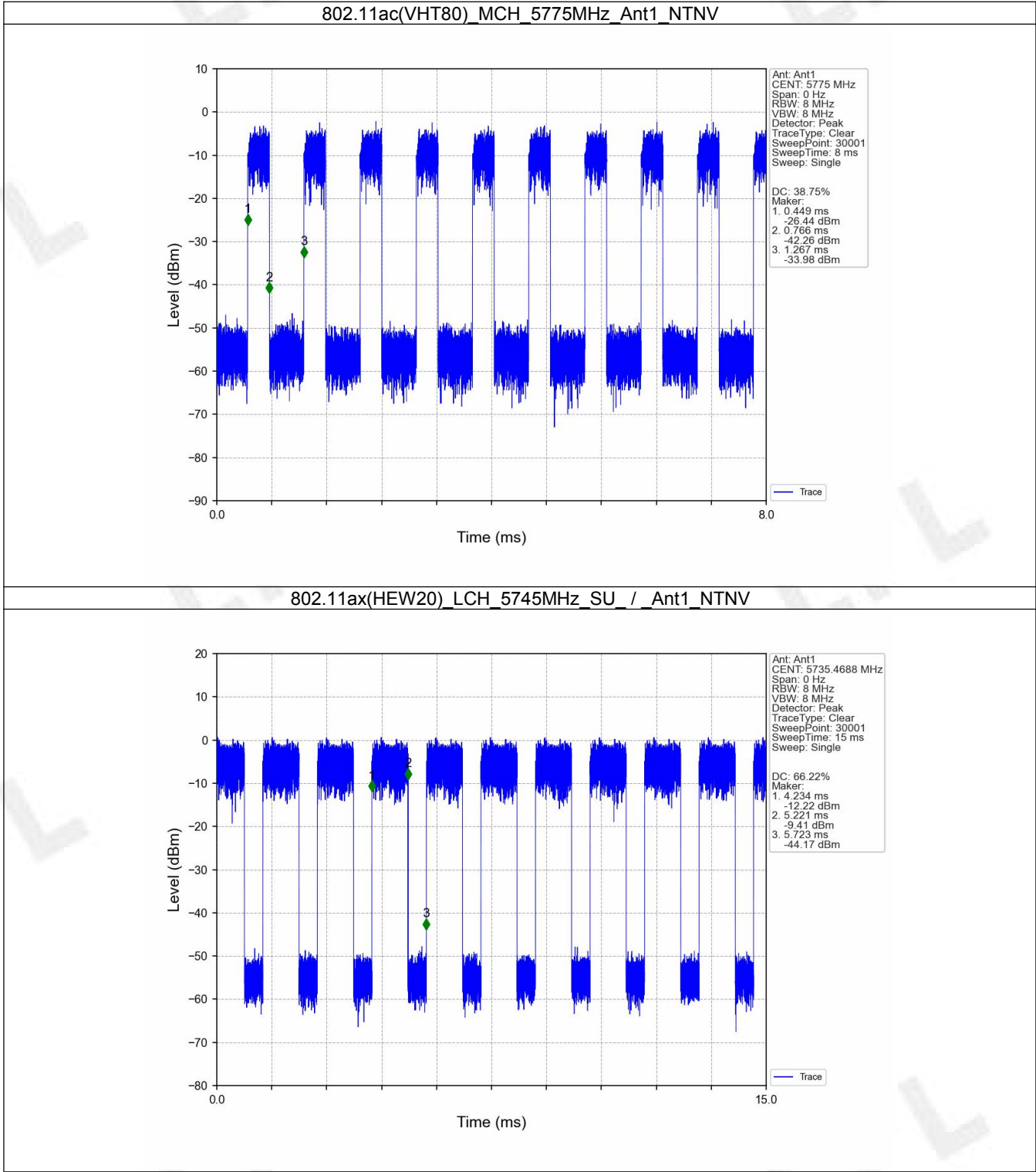
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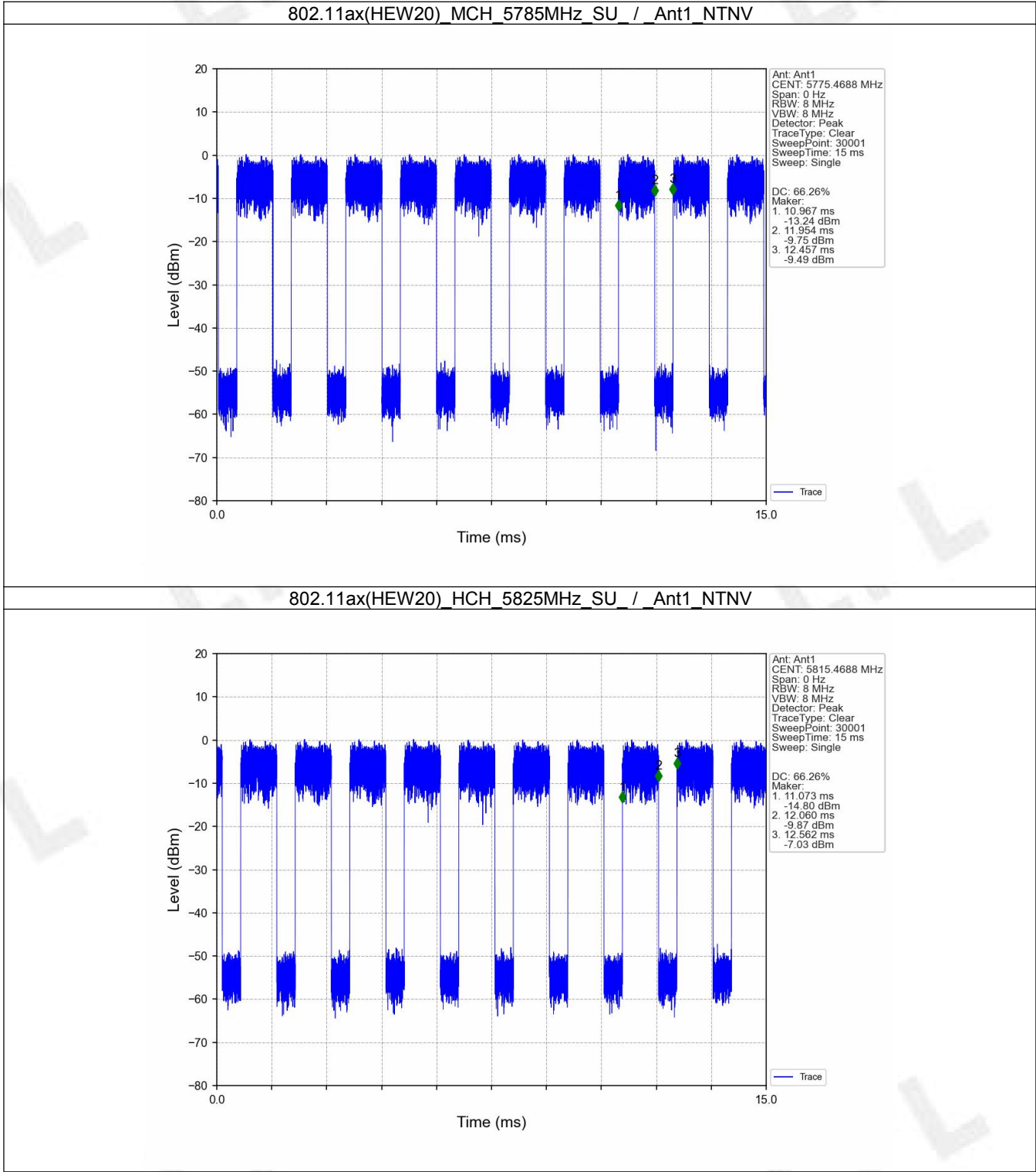
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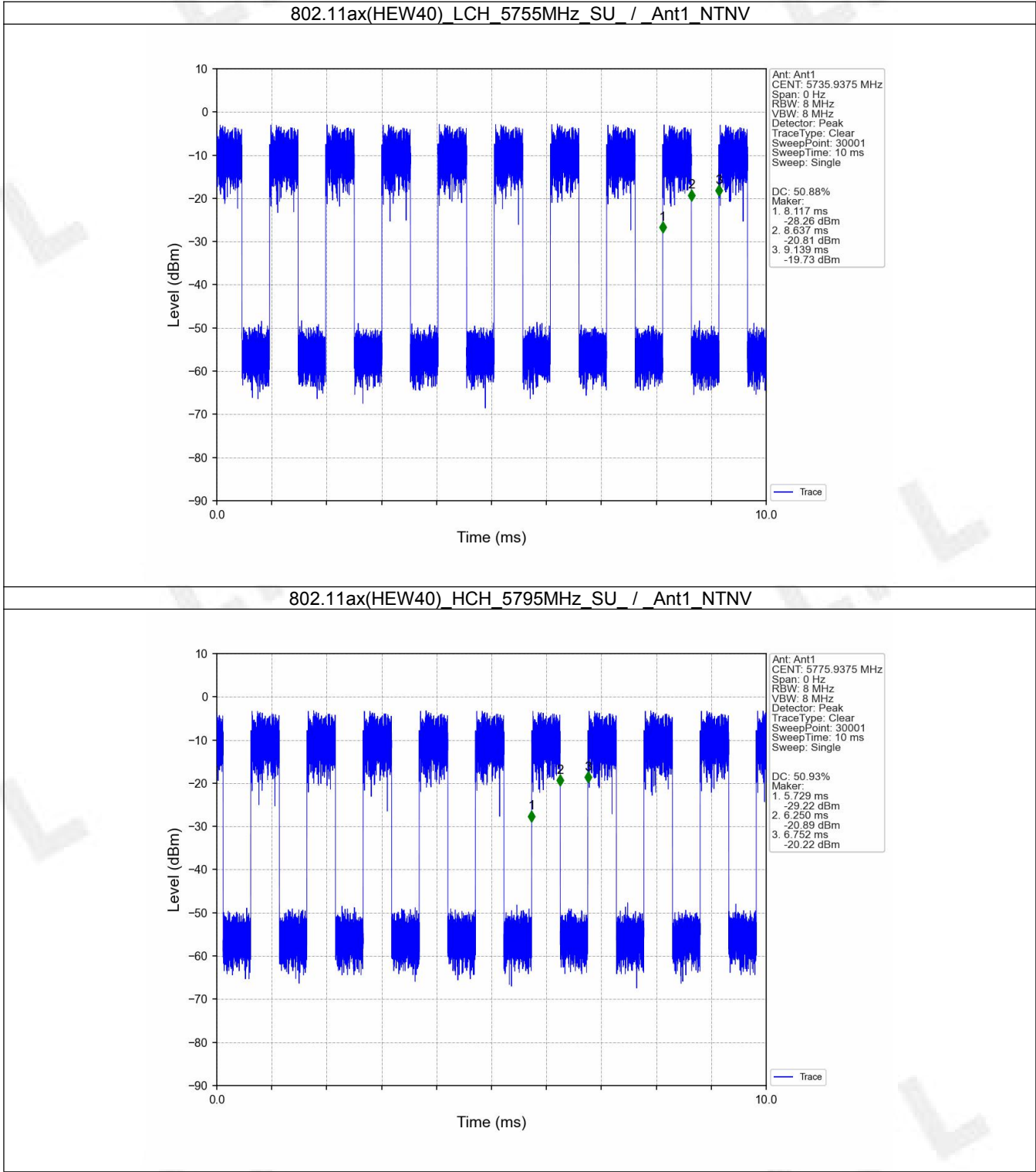
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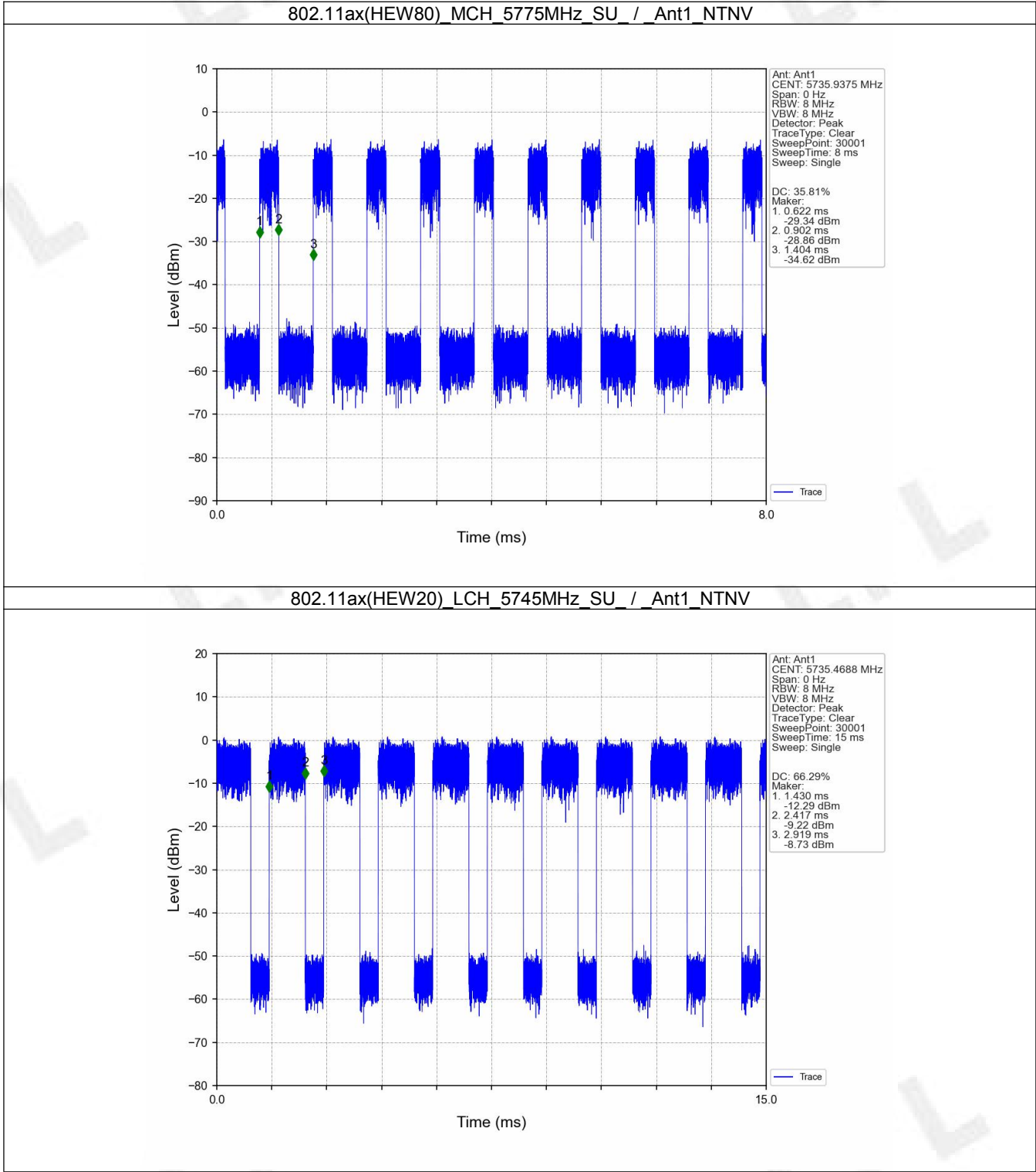
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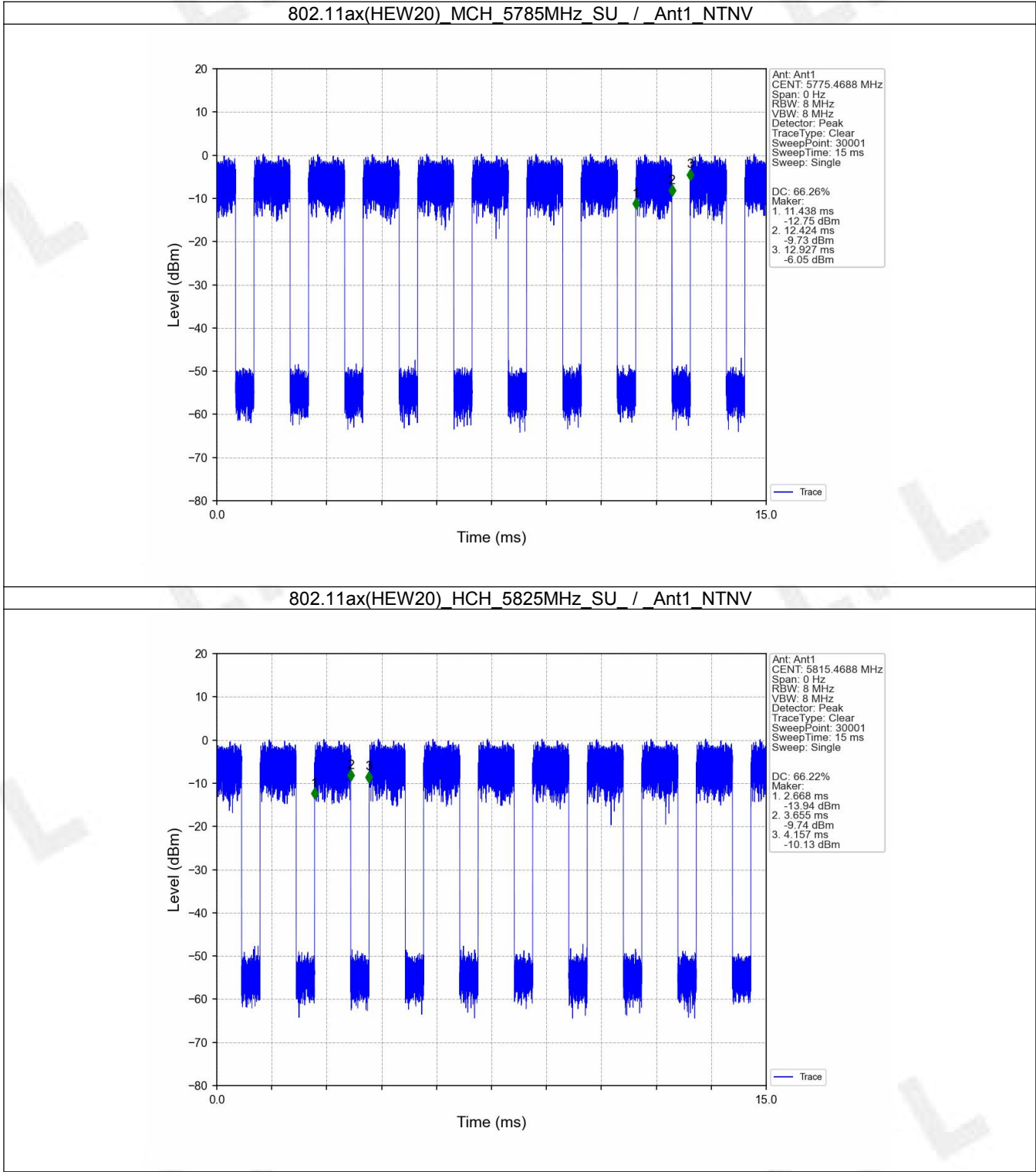
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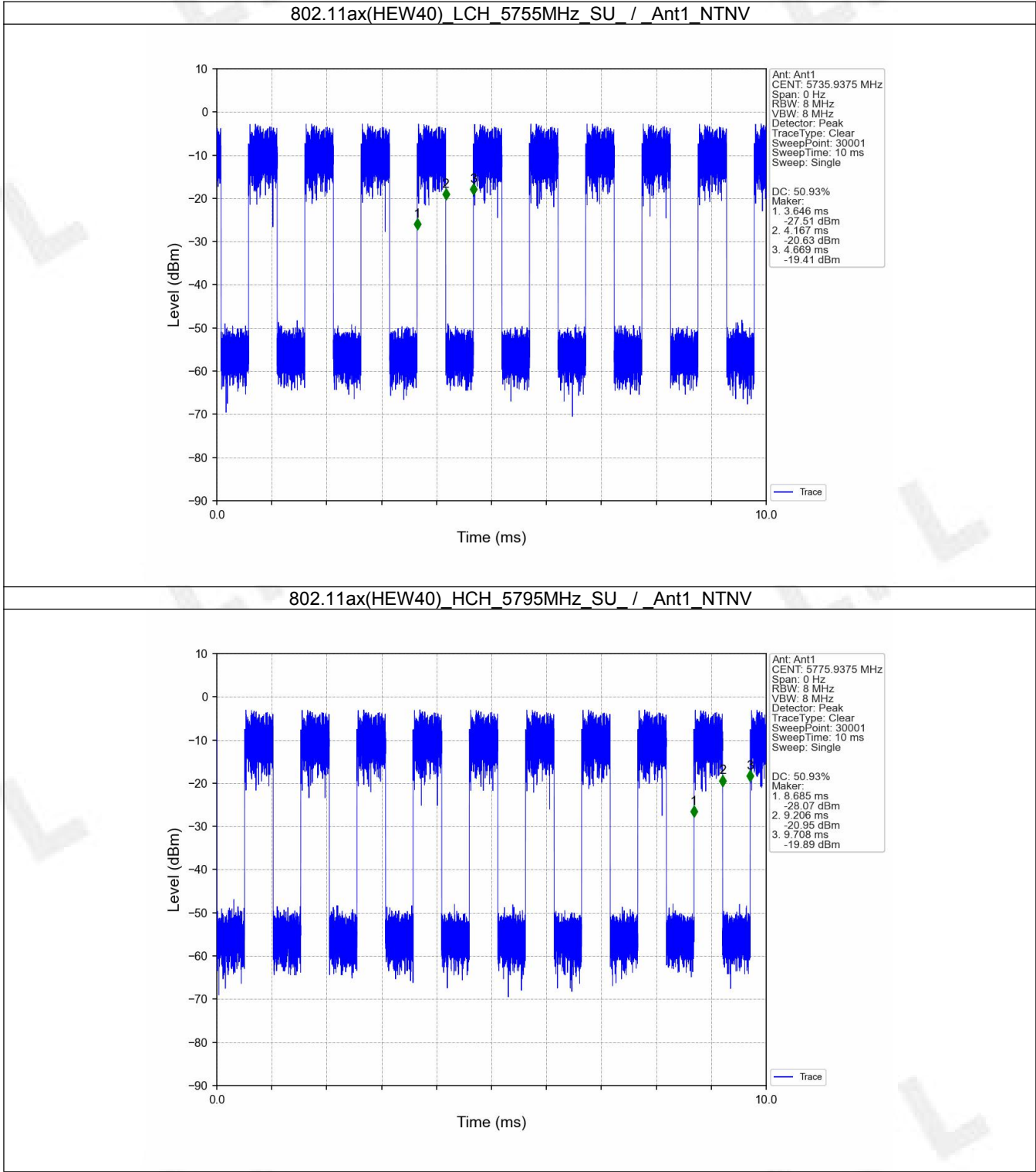
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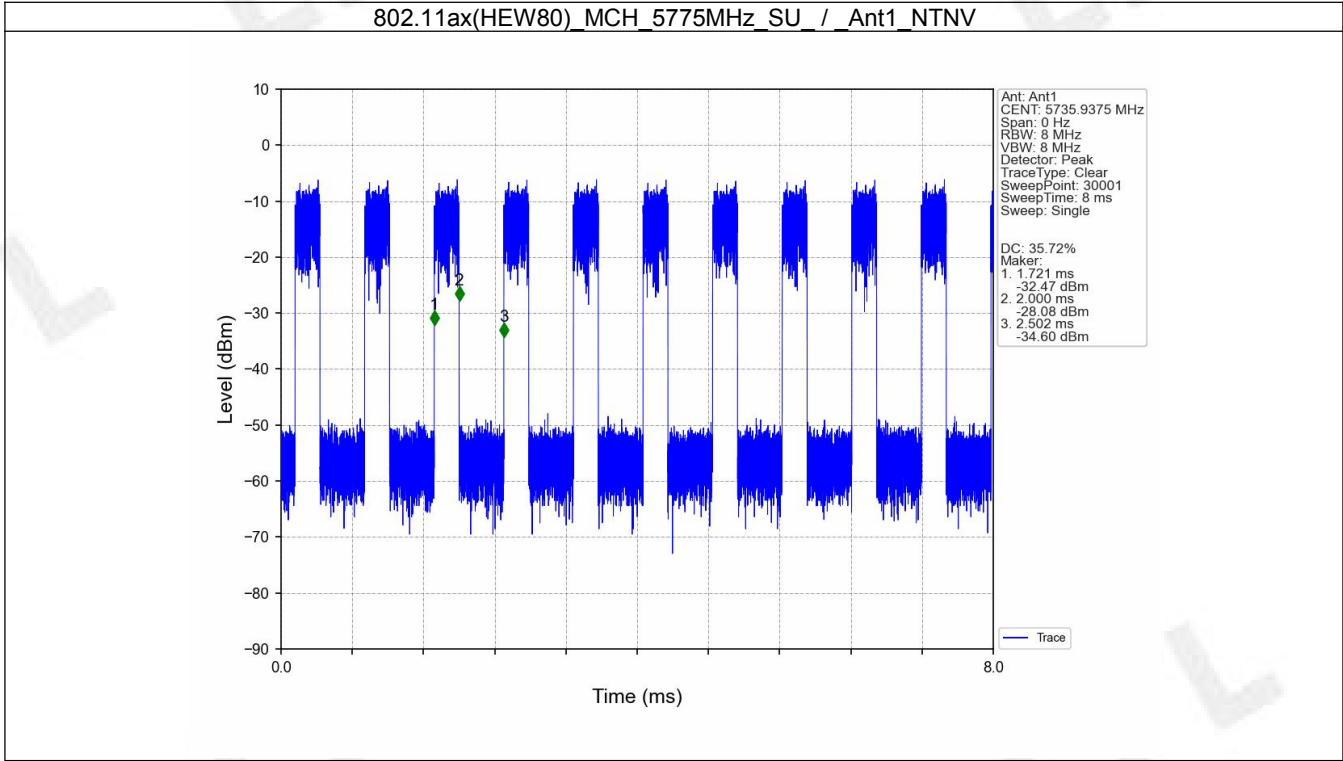
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2. Bandwidth**2.1 Test Result****2.1.1 OBW**

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	16.615	/	Pass
		5785	/	/	1	16.611	/	Pass
		5825	/	/	1	16.613	/	Pass
802.11n (HT20)	SISO	5745	/	/	1	17.698	/	Pass
		5785	/	/	1	17.705	/	Pass
		5825	/	/	1	17.685	/	Pass
802.11n (HT40)	SISO	5755	/	/	1	36.243	/	Pass
		5795	/	/	1	36.222	/	Pass
802.11n (HT20)	MIMO	5745	/	/	1	17.712	/	Pass
		5785	/	/	1	17.721	/	Pass
		5825	/	/	1	17.696	/	Pass
802.11n (HT40)	MIMO	5755	/	/	1	36.241	/	Pass
		5795	/	/	1	36.258	/	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	17.734	/	Pass
		5785	/	/	1	17.678	/	Pass
		5825	/	/	1	17.703	/	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	36.182	/	Pass
		5795	/	/	1	36.194	/	Pass
802.11ac (VHT80)	SISO	5775	/	/	1	76.735	/	Pass
802.11ac (VHT20)	MIMO	5745	/	/	1	17.750	/	Pass
		5785	/	/	1	17.717	/	Pass
		5825	/	/	1	17.701	/	Pass
802.11ac (VHT40)	MIMO	5755	/	/	1	36.233	/	Pass
		5795	/	/	1	36.197	/	Pass
802.11ac (VHT80)	MIMO	5775	/	/	1	76.558	/	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	19.077	/	Pass
		5785	SU	/	1	19.031	/	Pass
		5825	SU	/	1	19.029	/	Pass
802.11ax (HEW40)	SISO	5755	SU	/	1	37.887	/	Pass
		5795	SU	/	1	37.853	/	Pass
802.11ax (HEW80)	SISO	5775	SU	/	1	77.289	/	Pass
802.11ax (HEW20)	MIMO	5745	SU	/	1	19.027	/	Pass
		5785	SU	/	1	19.097	/	Pass
		5825	SU	/	1	19.093	/	Pass
802.11ax (HEW40)	MIMO	5755	SU	/	1	37.895	/	Pass
		5795	SU	/	1	37.918	/	Pass
802.11ax (HEW80)	MIMO	5775	SU	/	1	77.221	/	Pass

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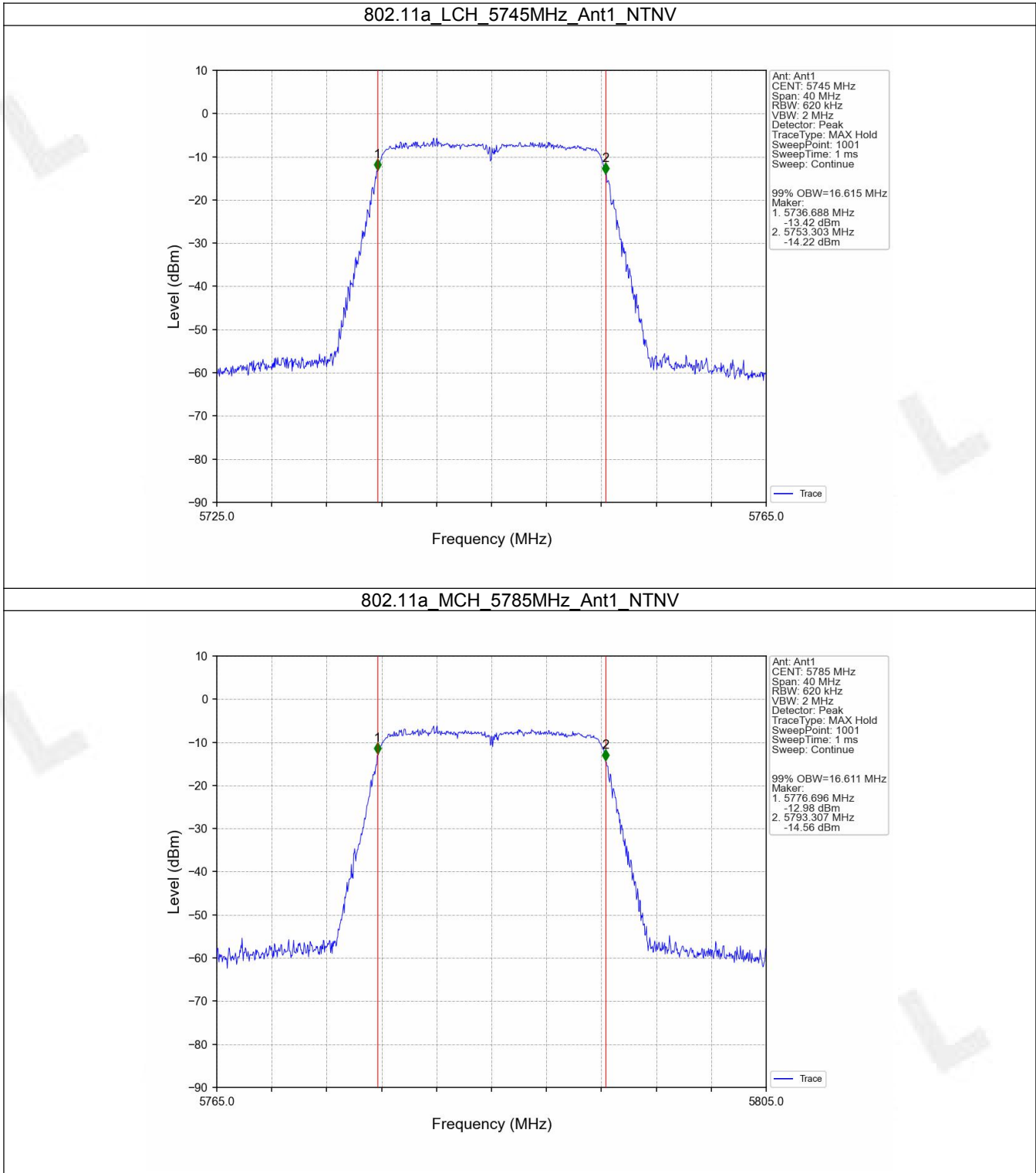
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	16.340	>=0.5	Pass
		5785	/	/	1	16.346	>=0.5	Pass
		5825	/	/	1	16.328	>=0.5	Pass
802.11n (HT20)	SISO	5745	/	/	1	17.582	>=0.5	Pass
		5785	/	/	1	17.576	>=0.5	Pass
		5825	/	/	1	17.342	>=0.5	Pass
802.11n (HT40)	SISO	5755	/	/	1	35.167	>=0.5	Pass
		5795	/	/	1	35.397	>=0.5	Pass
802.11n (HT20)	MIMO	5745	/	/	1	16.927	>=0.5	Pass
		5785	/	/	1	16.960	>=0.5	Pass
		5825	/	/	1	16.942	>=0.5	Pass
802.11n (HT40)	MIMO	5755	/	/	1	35.112	>=0.5	Pass
		5795	/	/	1	35.253	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	17.584	>=0.5	Pass
		5785	/	/	1	17.276	>=0.5	Pass
		5825	/	/	1	17.353	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	35.472	>=0.5	Pass
		5795	/	/	1	35.514	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	/	/	1	75.218	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	/	/	1	17.287	>=0.5	Pass
		5785	/	/	1	17.341	>=0.5	Pass
		5825	/	/	1	16.784	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	/	/	1	35.528	>=0.5	Pass
		5795	/	/	1	35.943	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	/	/	1	75.223	>=0.5	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	18.305	>=0.5	Pass
		5785	SU	/	1	18.585	>=0.5	Pass
		5825	SU	/	1	17.631	>=0.5	Pass
802.11ax (HEW40)	SISO	5755	SU	/	1	37.592	>=0.5	Pass
		5795	SU	/	1	37.604	>=0.5	Pass
802.11ax (HEW80)	SISO	5775	SU	/	1	75.666	>=0.5	Pass
802.11ax (HEW20)	MIMO	5745	SU	/	1	17.949	>=0.5	Pass
		5785	SU	/	1	17.201	>=0.5	Pass
		5825	SU	/	1	18.645	>=0.5	Pass
802.11ax (HEW40)	MIMO	5755	SU	/	1	36.628	>=0.5	Pass
		5795	SU	/	1	37.599	>=0.5	Pass
802.11ax (HEW80)	MIMO	5775	SU	/	1	76.665	>=0.5	Pass

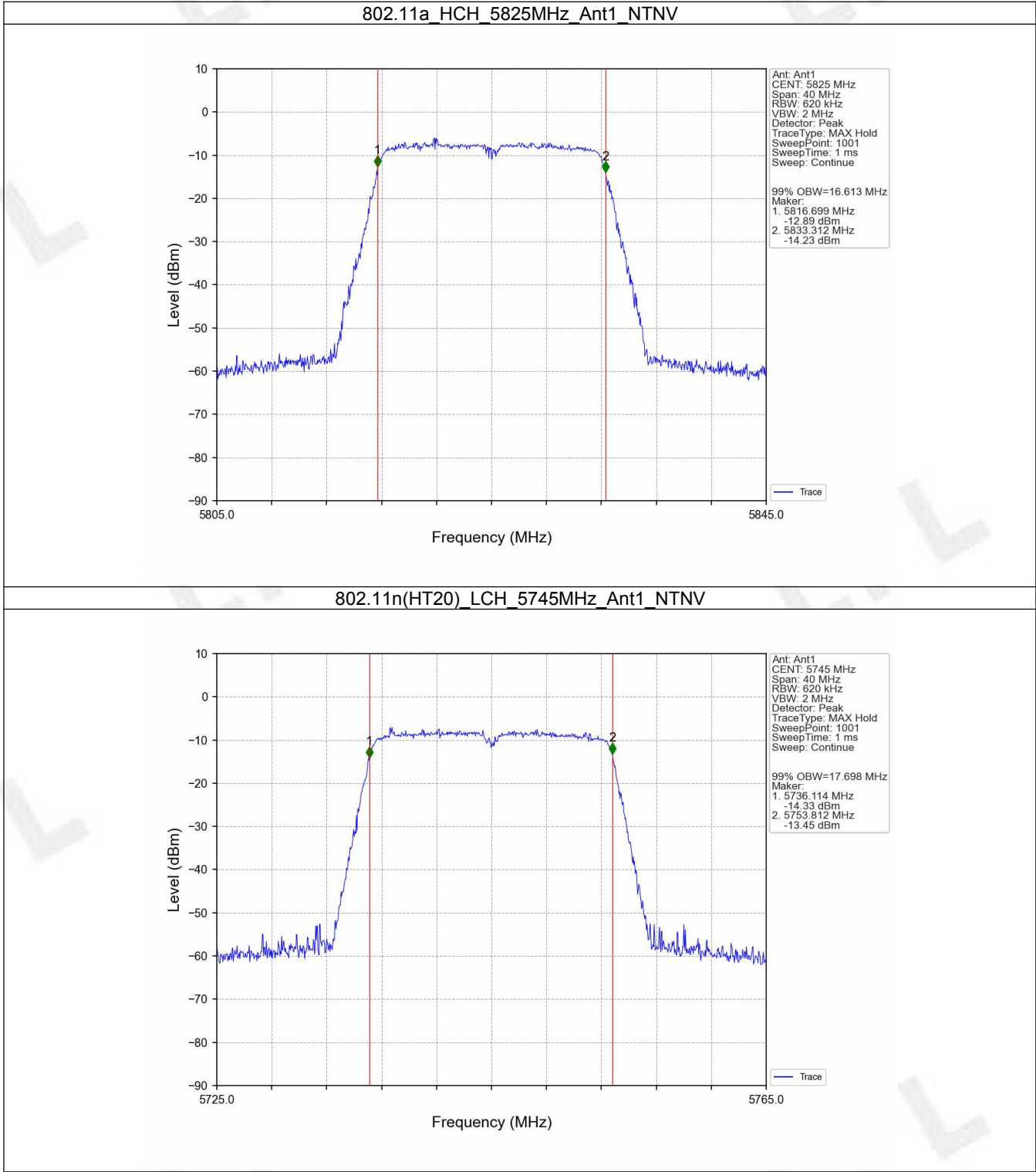
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2.2 Test Graph

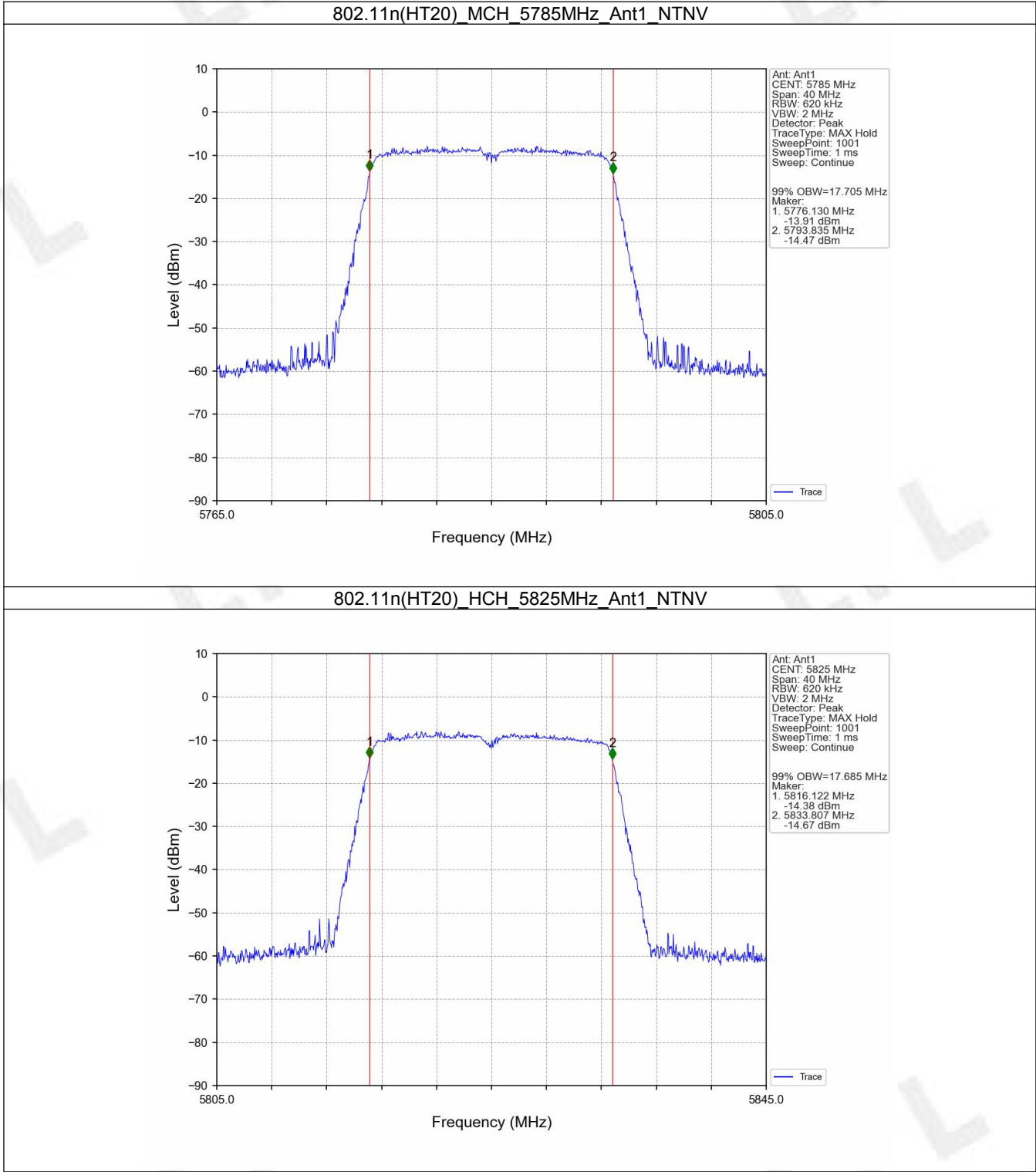
2.2.1 OBW



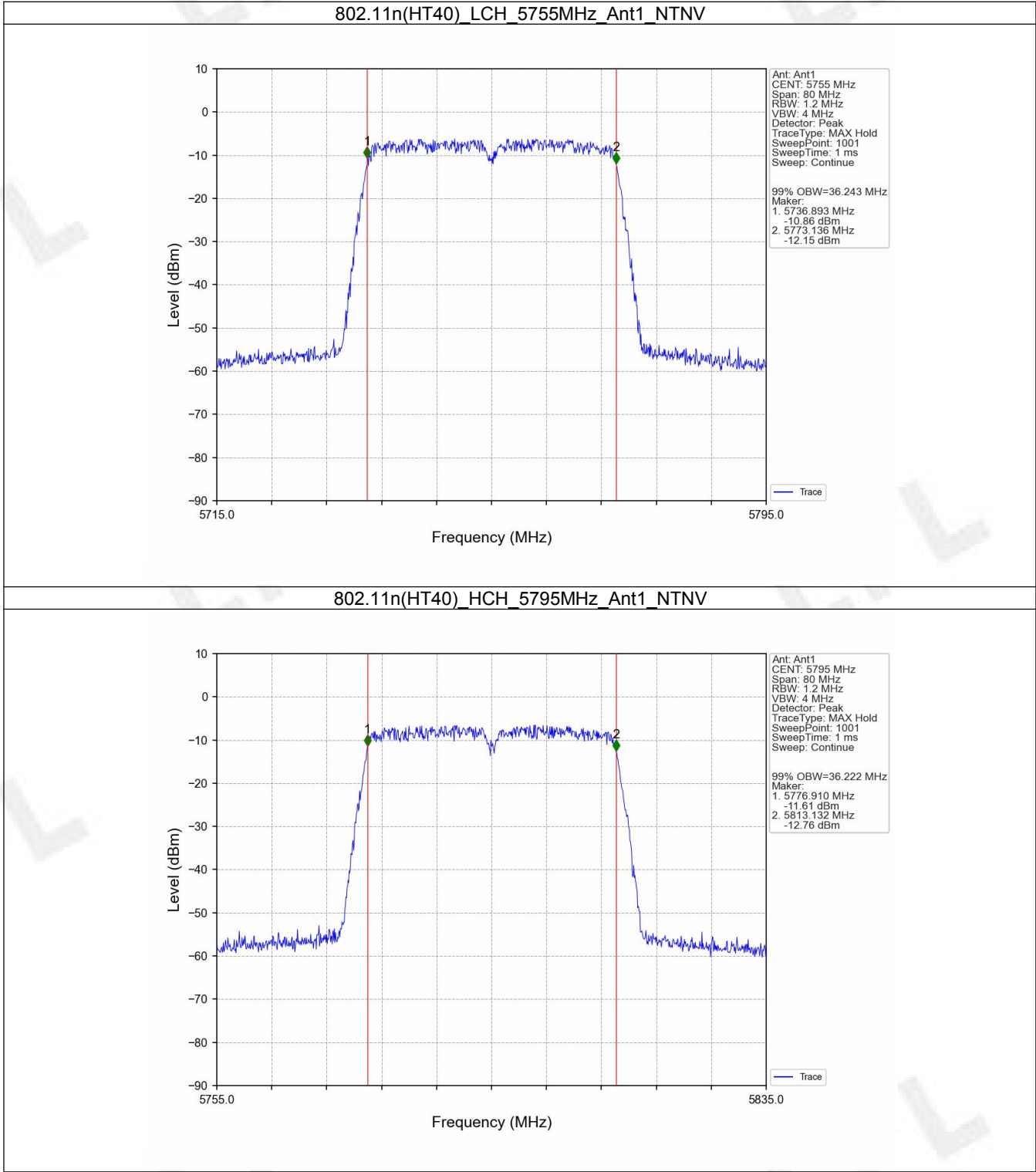
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